METHOD AND APPARATUS FOR ADAPTIVE TWO-DIMENSION INTER-PACKET HEADER COMPRESSION

ABSTRACT

A method and apparatus for an adaptive two-dimension inter-packet header compression for faster and more efficient transmission of a broadcasting packet. Currently, uneven speeds exist between the originator and the final receptors because certain router paths are slower than the rest of the other pathways, limiting the overall performance to the performance of the slowest pathways. This current art results in bottlenecks at certain routers, causing the overall speed of transmission to be slowed. The present invention is directed to optimizing the slowest and least efficient routers, so that the bottlenecks that currently exist in the current art of transmitting broadcasting packets are eliminated. This is achieved through the temporary storage of the broadcasting payload in a coded header inside broadcasting routers. The coded header is transmitted to a receiving server, and its corresponding broadcasting payload is transmitted to the coded header, to form a full broadcasting packet at the receiving server.